

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P593079

Luminaire Tested: **HC610D010-HM60525950-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593079
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC610D010-HM60525950-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 984.7 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

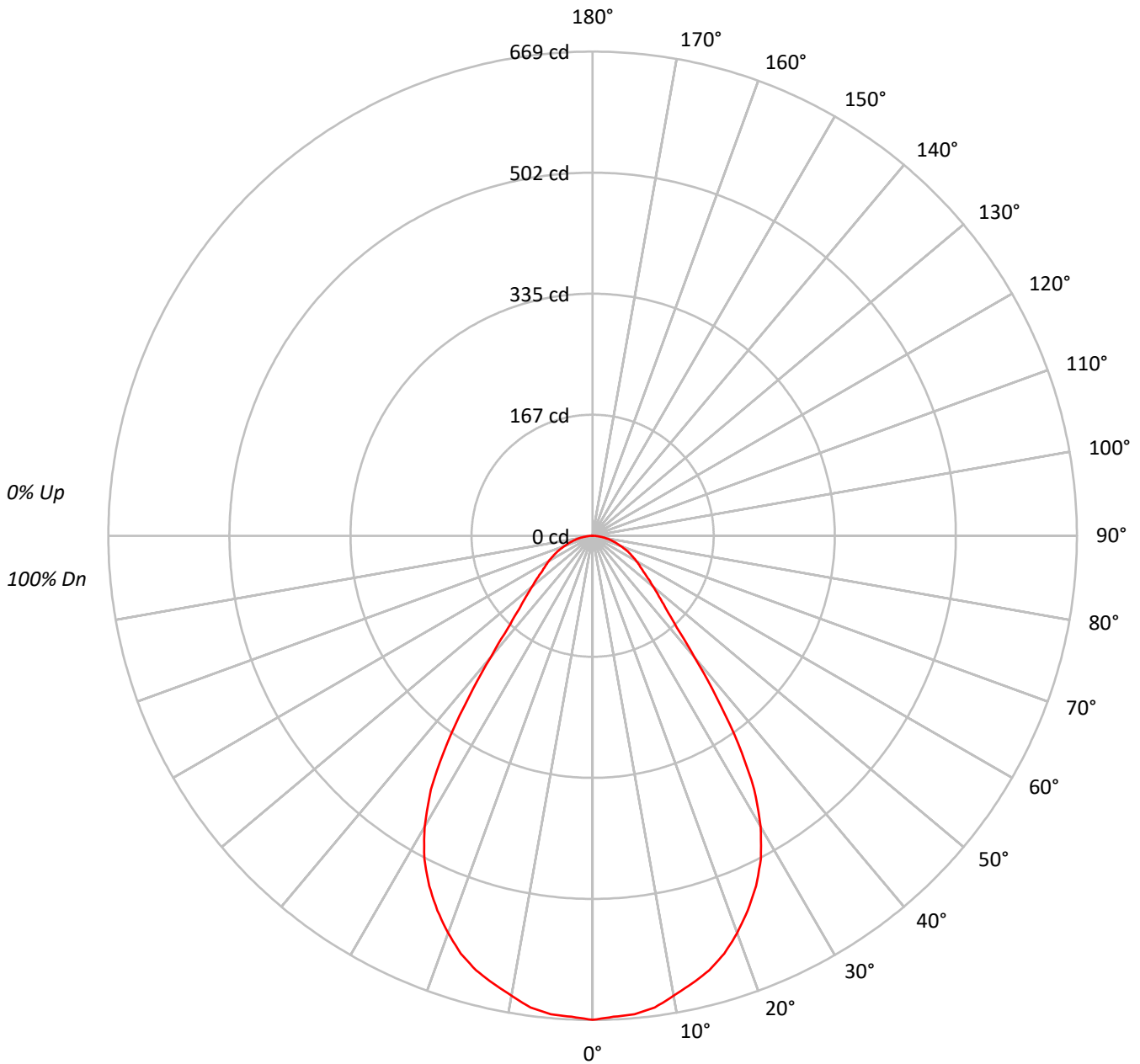
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	36664
5°	36523
10°	35916
15°	35284
20°	34064
25°	32300
30°	29378
35°	23477
40°	15658
45°	11164
50°	9305
55°	8105
60°	7653
65°	7212
70°	6620
75°	6185
80°	5619
85°	4906



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.8	6.4
10°-20°	174.6	17.7
20°-30°	243.9	24.8
30°-40°	214.9	21.8
40°-50°	116.1	11.8
50°-60°	77.6	7.9
60°-70°	55.0	5.6
70°-80°	30.9	3.1
80°-90°	9.0	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	481.3	48.9
0°-40°	696.1	70.7
0°-60°	889.8	90.4
0°-90°	984.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	984.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	669	
5°	664	63
15°	622	175
25°	534	244
35°	351	215
45°	144	116
55°	85	78
65°	56	55
75°	29	31
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	668.8
2.5°	665.2
5°	663.7
7.5°	657.4
10°	645.2
12.5°	633.8
15°	621.7
17.5°	605.3
20°	583.9
22.5°	560.3
25°	534.0
27.5°	503.3
30°	464.1
32.5°	415.7
35°	350.8
37.5°	280.2
40°	218.8
42.5°	172.5
45°	144.0
47.5°	124.7
50°	109.1
52.5°	96.2
55°	84.8
57.5°	77.0
60°	69.8
62.5°	62.7
65°	55.6
67.5°	48.4
70°	41.3
72.5°	35.0
75°	29.2
77.5°	23.5
80°	17.8
82.5°	12.8
85°	7.8
87.5°	3.5
90°	0.0



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— 0°-180°







(END OF REPORT)